

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/575,279
Source: TFW
Date Processed by STIC: 1/29/07

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/575,279

CRF Edit Date: 6/26/07

Edited by: [Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other: deleted invalid Alpha numeric
headings for prior Application Number.



IFWO

RAW SEQUENCE LISTING

DATE: 01/26/2007

PATENT APPLICATION: US/10/575,279

TIME: 09:30:36

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\01262007\J575279.raw

3 <110> APPLICANT: The UAB Research Foundation

4 Oomens, Tom

5 Megaw, Alexander

6 Wertz, Gail

8 <120> TITLE OF INVENTION: RECOMBINANT VIRUSES WITH HETEROLOGOUS ENVELOPE

PROTEINS

10 <130> FILE REFERENCE: 057909-012001

C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/575,279

C--> 12 <141> CURRENT FILING DATE: 2006-04-11

12 <150> PRIOR APPLICATION NUMBER: 60/588,379

13 <151> PRIOR FILING DATE: 2004-07-16

15 <150> PRIOR APPLICATION NUMBER: 60/528,214

16 <151> PRIOR FILING DATE: 2003-12-10

18 <150> PRIOR APPLICATION NUMBER: 10/262,238

19 <151> PRIOR FILING DATE: 2002-10-01

21 <150> PRIOR APPLICATION NUMBER: 60/397,289

22 <151> PRIOR FILING DATE: 2002-07-19

24 <150> PRIOR APPLICATION NUMBER: 60/326,259

25 <151> PRIOR FILING DATE: 2001-10-01

27 <160> NUMBER OF SEQ ID NOS: 4

29 <170> SOFTWARE: PatentIn version 3.2

31 <210> SEQ ID NO: 1

32 <211> LENGTH: 7

33 <212> TYPE: PRT

34 <213> ORGANISM: Autographa californica nucleopolyhedrovirus

36 <400> SEQUENCE: 1

38 Arg Asn Arg Asn Arg Gln Tyr

39 1 5

42 <210> SEQ ID NO: 2

43 <211> LENGTH: 15

44 <212> TYPE: PRT

45 <213> ORGANISM: Human respiratory syncytial virus

47 <400> SEQUENCE: 2

49 Ser Arg Arg Gln Leu Ser Gly Ile Asn Asn Ile Ala Phe Ser Asn

50 1 5 10 15

53 <210> SEQ ID NO: 3

54 <211> LENGTH: 574

55 <212> TYPE: PRT

56 <213> ORGANISM: Human respiratory syncytial virus

58 <400> SEQUENCE: 3

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61 1 5 10 15

64 Ala Val Thr Phe Cys Phe Ala Ser Gly Gln Asn Ile Thr Glu Glu Phe

65 20 25 30

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77 65          70          75          80
80 Gln Glu Leu Asp Lys Tyr Lys Asn Ala Val Thr Glu Leu Gln Leu Leu
81          85          90          95
84 Met Gln Ser Thr Pro Pro Thr Asn Asn Arg Ala Arg Arg Glu Leu Pro
85          100          105          110
88 Arg Phe Met Asn Tyr Thr Leu Asn Asn Ala Lys Lys Thr Asn Val Thr
89          115          120          125
92 Leu Ser Lys Lys Arg Lys Arg Phe Leu Gly Phe Leu Leu Gly Val
93          130          135          140
96 Gly Ser Ala Ile Ala Ser Gly Val Ala Val Ser Lys Val Leu His Leu
97 145          150          155          160
100 Glu Gly Glu Val Asn Lys Ile Lys Ser Ala Leu Leu Ser Thr Asn Lys
101          165          170          175
104 Ala Val Val Ser Leu Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val
105          180          185          190
108 Leu Asp Leu Lys Asn Tyr Ile Asp Lys Gln Leu Leu Pro Ile Val Asn
109          195          200          205
112 Lys Gln Ser Cys Ser Ile Ser Asn Ile Glu Thr Val Ile Glu Phe Gln
113          210          215          220
116 Gln Lys Asn Asn Arg Leu Leu Glu Ile Thr Arg Glu Phe Ser Val Asn
117 225          230          235          240
120 Ala Gly Val Thr Thr Pro Val Ser Thr Tyr Met Leu Thr Asn Ser Glu
121          245          250          255
124 Leu Leu Ser Leu Ile Asn Asp Met Pro Ile Thr Asn Asp Gln Lys Lys
125          260          265          270
128 Leu Met Ser Asn Asn Val Gln Ile Val Arg Gln Gln Ser Tyr Ser Ile
129          275          280          285
132 Met Ser Ile Ile Lys Glu Glu Val Leu Ala Tyr Val Val Gln Leu Pro
133          290          295          300
136 Leu Tyr Gly Val Ile Asp Thr Pro Cys Trp Lys Leu His Thr Ser Pro
137 305          310          315          320
140 Leu Cys Thr Thr Asn Thr Lys Glu Gly Ser Asn Ile Cys Leu Thr Arg
141          325          330          335
144 Thr Asp Arg Gly Trp Tyr Cys Asp Asn Ala Gly Ser Val Ser Phe Phe
145          340          345          350
148 Pro Gln Ala Glu Thr Cys Lys Val Gln Ser Asn Arg Val Phe Cys Asp
149          355          360          365
152 Thr Met Asn Ser Leu Thr Leu Pro Ser Glu Ile Asn Leu Cys Asn Val
153          370          375          380
156 Asp Ile Phe Asn Pro Lys Tyr Asp Cys Lys Ile Met Thr Ser Lys Thr
157 385          390          395          400
160 Asp Val Ser Ser Ser Val Ile Thr Ser Leu Gly Ala Ile Val Ser Cys
161          405          410          415
164 Tyr Gly Lys Thr Lys Cys Thr Ala Ser Asn Lys Asn Arg Gly Ile Ile

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Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\01262007\J575279.raw

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172 Thr Val Ser Val Gly Asn Thr Leu Tyr Tyr Val Asn Lys Gln Glu Gly
173           450           455           460
176 Lys Ser Leu Tyr Val Lys Gly Glu Pro Ile Ile Asn Phe Tyr Asp Pro
177 465           470           475           480
180 Leu Val Phe Pro Ser Asp Glu Phe Asp Ala Ser Ile Ser Gln Val Asn
181           485           490           495
184 Glu Lys Ile Asn Gln Ser Leu Ala Phe Ile Arg Lys Ser Asp Glu Leu
185           500           505           510
188 Leu His Asn Val Asn Ala Gly Lys Ser Thr Thr Asn Ile Met Ile Thr
189           515           520           525
192 Thr Ile Ile Ile Val Ile Ile Val Ile Leu Leu Ser Leu Ile Ala Val
193           530           535           540
196 Gly Leu Leu Leu Tyr Cys Lys Ala Arg Ser Thr Pro Val Thr Leu Ser
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201           565           570
204 <210> SEQ ID NO: 4
205 <211> LENGTH: 511
206 <212> TYPE: PRT
207 <213> ORGANISM: Vesicular stomatitis virus
209 <400> SEQUENCE: 4
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212 1           5           10           15
215 Lys Phe Thr Ile Val Phe Pro His Asn Gln Lys Gly Asn Trp Lys Asn
216           20           25           30
219 Val Pro Ser Asn Tyr His Tyr Cys Pro Ser Ser Ser Asp Leu Asn Trp
220           35           40           45
223 His Asn Asp Leu Ile Gly Thr Ala Ile Gln Val Lys Met Pro Lys Ser
224           50           55           60
227 His Lys Ala Ile Gln Ala Asp Gly Trp Met Cys His Ala Ser Lys Trp
228 65           70           75           80
231 Val Thr Thr Cys Asp Phe Arg Trp Tyr Gly Pro Lys Tyr Ile Thr Gln
232           85           90           95
235 Ser Ile Arg Ser Phe Thr Pro Ser Val Glu Gln Cys Lys Glu Ser Ile
236           100          105          110
239 Glu Gln Thr Lys Gln Gly Thr Trp Leu Asn Pro Gly Phe Pro Pro Gln
240           115          120          125
243 Ser Cys Gly Tyr Ala Thr Val Thr Asp Ala Glu Ala Val Ile Val Gln
244           130          135          140
247 Val Thr Pro His His Val Leu Val Asp Glu Tyr Thr Gly Glu Trp Val
248 145          150          155          160
251 Asp Ser Gln Phe Ile Asn Gly Lys Cys Ser Asn Tyr Ile Cys Pro Thr
252           165          170          175
255 Val His Asn Ser Thr Thr Trp His Ser Asp Tyr Lys Val Lys Gly Leu
256           180          185          190
259 Cys Asp Ser Asn Leu Ile Ser Met Asp Ile Thr Phe Phe Ser Glu Asp

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Output Set: N:\CRF4\01262007\J575279.raw

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263	Gly	Glu	Leu	Ser	Ser	Leu	Gly
264		210		215		220	
267	Tyr	Phe	Ala	Tyr	Glu	Thr	Gly
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272			245			250	
275	Asp	Lys	Asp	Leu	Phe	Ala	Ala
276			260			265	
279	Ser	Ser	Ile	Ser	Ala	Pro	Ser
280			275			280	
283	Gln	Asp	Val	Glu	Arg	Ile	Leu
284		290				295	
287	Ser	Lys	Ile	Arg	Ala	Gly	Leu
288	305					310	
291	Leu	Ala	Pro	Lys	Asn	Pro	Gly
292				325			
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296			340			345	
299	Ala	Pro	Ile	Leu	Ser	Arg	Met
300		355				360	
303	Glu	Arg	Glu	Leu	Trp	Asp	Asp
304		370				375	
307	Gly	Pro	Asn	Gly	Val	Leu	Arg
308	385					390	
311	Tyr	Met	Ile	Gly	His	Gly	Met
312				405			
315	Lys	Ala	Gln	Val	Phe	Glu	His
316			420			425	
319	Leu	Pro	Asp	Asp	Glu	Ser	Leu
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323	Asn	Pro	Ile	Glu	Leu	Val	Glu
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327	Ile	Ala	Ser	Phe	Phe	Phe	Ile
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331	Val	Leu	Arg	Val	Gly	Ile	His
332				485			
335	Lys	Arg	Gln	Ile	Tyr	Thr	Asp
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,279

DATE: 01/26/2007

TIME: 09:30:37

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\01262007\J575279.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWO

RAW SEQUENCE LISTING

DATE: 01/19/2007

PATENT APPLICATION: US/10/575,279

TIME: 16:41:43

Input Set : A:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01192007\J575279.raw

3 <110> APPLICANT: The UAB Research Foundation
 4 Oomens, Tom
 5 Megaw, Alexander
 6 Wertz, Gail
 8 <120> TITLE OF INVENTION: RECOMBINANT VIRUSES WITH HETEROLOGOUS ENVELOPE PROTEINS
 10 <130> FILE REFERENCE: 057909-012001
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/575,279 *deleted*
 C--> 12 <141> CURRENT FILING DATE: 2006-04-11
 12 <150> PRIOR APPLICATION NUMBER: U.S. Provisional Patent Application Serial No. 60/588,379 *deleted*
 13 <151> PRIOR FILING DATE: 2004-07-16
 15 <150> PRIOR APPLICATION NUMBER: U.S. Provisional Patent Application Serial No. 60/528,214 *deleted*
 16 <151> PRIOR FILING DATE: 2003-12-10
 18 <150> PRIOR APPLICATION NUMBER: U.S. Patent Application Serial No. 10/262,238 *deleted*
 19 <151> PRIOR FILING DATE: 2002-10-01
 21 <150> PRIOR APPLICATION NUMBER: U.S. Provisional Patent Application Serial No. 60/397,289 *deleted*
 22 <151> PRIOR FILING DATE: 2002-07-19
 24 <150> PRIOR APPLICATION NUMBER: U.S. Provisional Patent Application Serial No. 60/326,259 *deleted*
 25 <151> PRIOR FILING DATE: 2001-10-01
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 29 <170> SOFTWARE: PatentIn version 3.2
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 33 <212> TYPE: PRT
 34 <213> ORGANISM: Autographa californica nucleopolyhedrovirus
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 39 1 5
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 15
 44 <212> TYPE: PRT
 45 <213> ORGANISM: Human respiratory syncytial virus
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 54 <211> LENGTH: 574
 55 <212> TYPE: PRT
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 (pg. 1)

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64	Ala	Val	Thr	Phe	Cys	Phe	Ala	Ser	Gly	Gln	Asn	Ile	Thr	Glu	Glu	Phe
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RAW SEQUENCE LISTING

DATE: 01/19/2007

PATENT APPLICATION: US/10/575,279

TIME: 16:41:43

Input Set : A:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01192007\J575279.raw

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76 Lys Glu Asn Lys Cys Asn Gly Thr Asp Ala Lys Val Lys Leu Ile Lys
77 65      70      75      80
80 Gln Glu Leu Asp Lys Tyr Lys Asn Ala Val Thr Glu Leu Gln Leu Leu
81      85      90      95
84 Met Gln Ser Thr Pro Pro Thr Asn Asn Arg Ala Arg Arg Glu Leu Pro
85      100     105     110
88 Arg Phe Met Asn Tyr Thr Leu Asn Asn Ala Lys Lys Thr Asn Val Thr
89      115     120     125
92 Leu Ser Lys Lys Arg Lys Arg Arg Phe Leu Gly Phe Leu Leu Gly Val
93      130     135     140
96 Gly Ser Ala Ile Ala Ser Gly Val Ala Val Ser Lys Val Leu His Leu
97 145     150     155     160
100 Glu Gly Glu Val Asn Lys Ile Lys Ser Ala Leu Leu Ser Thr Asn Lys
101      165     170     175
104 Ala Val Val Ser Leu Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val
105      180     185     190
108 Leu Asp Leu Lys Asn Tyr Ile Asp Lys Gln Leu Leu Pro Ile Val Asn
109      195     200     205
112 Lys Gln Ser Cys Ser Ile Ser Asn Ile Glu Thr Val Ile Glu Phe Gln
113      210     215     220
116 Gln Lys Asn Asn Arg Leu Leu Glu Ile Thr Arg Glu Phe Ser Val Asn
117 225     230     235     240
120 Ala Gly Val Thr Thr Pro Val Ser Thr Tyr Met Leu Thr Asn Ser Glu
121      245     250     255
124 Leu Leu Ser Leu Ile Asn Asp Met Pro Ile Thr Asn Asp Gln Lys Lys
125      260     265     270
128 Leu Met Ser Asn Asn Val Gln Ile Val Arg Gln Gln Ser Tyr Ser Ile
129      275     280     285
132 Met Ser Ile Ile Lys Glu Glu Val Leu Ala Tyr Val Val Gln Leu Pro
133      290     295     300
136 Leu Tyr Gly Val Ile Asp Thr Pro Cys Trp Lys Leu His Thr Ser Pro
137 305     310     315     320
140 Leu Cys Thr Thr Asn Thr Lys Glu Gly Ser Asn Ile Cys Leu Thr Arg
141      325     330     335
144 Thr Asp Arg Gly Trp Tyr Cys Asp Asn Ala Gly Ser Val Ser Phe Phe
145      340     345     350
148 Pro Gln Ala Glu Thr Cys Lys Val Gln Ser Asn Arg Val Phe Cys Asp
149      355     360     365
152 Thr Met Asn Ser Leu Thr Leu Pro Ser Glu Ile Asn Leu Cys Asn Val
153      370     375     380
156 Asp Ile Phe Asn Pro Lys Tyr Asp Cys Lys Ile Met Thr Ser Lys Thr
157 385     390     395     400
160 Asp Val Ser Ser Ser Val Ile Thr Ser Leu Gly Ala Ile Val Ser Cys
161      405     410     415
164 Tyr Gly Lys Thr Lys Cys Thr Ala Ser Asn Lys Asn Arg Gly Ile Ile

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Input Set : A:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\01192007\J575279.raw

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173          450          455          460
176 Lys Ser Leu Tyr Val Lys Gly Glu Pro Ile Ile Asn Phe Tyr Asp Pro
177 465          470          475          480
180 Leu Val Phe Pro Ser Asp Glu Phe Asp Ala Ser Ile Ser Gln Val Asn
181          485          490          495
184 Glu Lys Ile Asn Gln Ser Leu Ala Phe Ile Arg Lys Ser Asp Glu Leu
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188 Leu His Asn Val Asn Ala Gly Lys Ser Thr Thr Asn Ile Met Ile Thr
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192 Thr Ile Ile Ile Val Ile Ile Val Ile Leu Leu Ser Leu Ile Ala Val
193          530          535          540
196 Gly Leu Leu Leu Tyr Cys Lys Ala Arg Ser Thr Pro Val Thr Leu Ser
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216          20          25          30
219 Val Pro Ser Asn Tyr His Tyr Cys Pro Ser Ser Ser Asp Leu Asn Trp
220          35          40          45
223 His Asn Asp Leu Ile Gly Thr Ala Ile Gln Val Lys Met Pro Lys Ser
224          50          55          60
227 His Lys Ala Ile Gln Ala Asp Gly Trp Met Cys His Ala Ser Lys Trp
228 65          70          75          80
231 Val Thr Thr Cys Asp Phe Arg Trp Tyr Gly Pro Lys Tyr Ile Thr Gln
232          85          90          95
235 Ser Ile Arg Ser Phe Thr Pro Ser Val Glu Gln Cys Lys Glu Ser Ile
236          100          105          110
239 Glu Gln Thr Lys Gln Gly Thr Trp Leu Asn Pro Gly Phe Pro Pro Gln
240          115          120          125
243 Ser Cys Gly Tyr Ala Thr Val Thr Asp Ala Glu Ala Val Ile Val Gln
244          130          135          140
247 Val Thr Pro His His Val Leu Val Asp Glu Tyr Thr Gly Glu Trp Val
248 145          150          155          160
251 Asp Ser Gln Phe Ile Asn Gly Lys Cys Ser Asn Tyr Ile Cys Pro Thr
252          165          170          175
255 Val His Asn Ser Thr Thr Trp His Ser Asp Tyr Lys Val Lys Gly Leu
256          180          185          190
259 Cys Asp Ser Asn Leu Ile Ser Met Asp Ile Thr Phe Phe Ser Glu Asp

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271 Lys His Trp Gly Val Arg Leu Pro Ser Gly Val Trp Phe Glu Met Ala
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276          260          265          270
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299 Ala Pro Ile Leu Ser Arg Met Val Gly Met Ile Ser Gly Thr Thr Thr
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303 Glu Arg Glu Leu Trp Asp Asp Trp Ala Pro Tyr Glu Asp Val Glu Ile
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307 Gly Pro Asn Gly Val Leu Arg Thr Ser Ser Gly Tyr Lys Phe Pro Leu
308 385          390          395          400
311 Tyr Met Ile Gly His Gly Met Leu Asp Ser Asp Leu His Leu Ser Ser
312          405          410          415
315 Lys Ala Gln Val Phe Glu His Pro His Ile Gln Asp Ala Ala Ser Gln
316          420          425          430
319 Leu Pro Asp Asp Glu Ser Leu Phe Phe Gly Asp Thr Gly Leu Ser Lys
320          435          440          445
323 Asn Pro Ile Glu Leu Val Glu Gly Trp Phe Ser Ser Trp Lys Ser Ser
324          450          455          460
327 Ile Ala Ser Phe Phe Phe Ile Ile Gly Leu Ile Ile Gly Leu Phe Leu
328 465          470          475          480
331 Val Leu Arg Val Gly Ile His Leu Cys Ile Lys Leu Lys His Thr Lys
332          485          490          495
335 Lys Arg Gln Ile Tyr Thr Asp Ile Glu Met Asn Arg Leu Gly Lys
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VERIFICATION SUMMARY

DATE: 01/19/2007

PATENT APPLICATION: US/10/575,279

TIME: 16:41:44

Input Set : A:\Sequence Listing.ST25.txt

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date